

Datasheet for 200-508-L55

F4/80 Phycoerythrin Antibody

Overview

Description:	Anti-F4/80 (RAT) Phycoerythrin Conjugated Monoclonal Antibody - 200-508-L55
Item No.:	200-508-L55
Size:	100 µg
Applications:	FC
Reactivity:	Mouse
Host Species:	Rat

Product Details

Background:	F4/80 is a 160 kD glycoprotein. It is characterized as a member of the epidermal growth factor (EGF)-transmembrane 7 (TM7) family. F4/80, also known as EMR1 or Ly71, has been widely used as a murine macrophage marker, which is expressed on majority of tissue macrophages including peritoneal macrophages, macrophages in lung, gut, thymus and red pulp of spleen (but not on the macrophages located in T cell areas of the spleen, lymph node and Peyer's patch), Kuffer cells, Langerhans cells, bone marrow stromal cells. F4/80 has also been shown on a subset of dendritic cells. The biological ligand of F4/80 has not been identified, but it has been reported that F4/80 is required for induction of CD8 T cells-mediated peripheral tolerance.
Synonyms:	EMR1, Ly71, EGF-TM7, Adhesion G protein-coupled receptor E1, Cell surface glycoprotein F4/80, EGF-like module receptor 1, EGF-like module-containing mucin-like hormone receptor-like 1, EMR1 hormone receptor, Gpf480, Adgre1
Host Species:	Rat
Conjugate:	R-Phycoerythrin (RPE)
Clonality:	Monoclonal
Clone ID:	BM8
Format:	IgG2a
F/P Ratio:	1-2

Target Details

Gene Name:	Adgre1
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Reactivity:	Mouse
Immunogen Type:	Other
Immunogen:	Anti-F4/80 Antibody (Monoclonal) was produced by repeated immunizations with murine macrophages.
Purity/Specificity:	Phycoerythrin conjugated F4/80 Monoclonal Antibody was purified from tissue culture supernatant via affinity chromatography and is directed against mouse F4/80. Cross reactivity with F4/80 from other sources has not been tested. Anti-F4/80 is conjugated with PE under optimal conditions and the solution is free of unconjugated PE.
Relevant Links:	• UniProtKB - Q61549 • NCBI - NP_034260.1 • GeneID - 13733

Application Details

Tested Applications:	FC
Application Note:	Anti-F4/80 is tested for Flow Cytometry and useful for Immunohistochemistry using mouse spleen cells, or an appropriate cell type (where indicated). Researchers should determine optimal titers for applications that are not stated.
Assay Dilutions:	All assays should be optimized by the user. Recommended dilutions (if any) may be listed below.
FC:	10 μ L/ 10^6 cells (0.1 μ g)
IHC:	User Optimized

Formulation

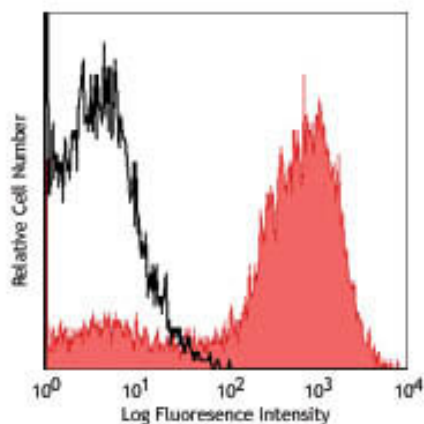
Physical State:	Liquid (sterile filtered)
Concentration:	0.2mg/mL Sufficient to run approximately 100 tests
Buffer:	0.01 M Sodium Phosphate, 0.15 M Sodium Chloride, pH 7.2
Preservative:	0.09% (w/v) Sodium Azide
Stabilizer:	None

Shipping & Handling

Shipping Condition:	Wet Ice
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Storage Condition:	Store vial at 4° C prior to opening. Dilute only prior to immediate use. This product is stable at 4° C as an undiluted liquid. Use subdued lighting during handling and incubation of cells prior to analysis. Store reagent in the dark. DO NOT FREEZE.
Expiration:	Expiration date is six (6) months from date of receipt.

Images



Flow Cytometry

Flow Cytometry of anti-F4/80 Phycoerythrin Conjugated Monoclonal Antibody. Cells: BALB/c mouse peritoneal macrophages. Stimulation: none. Antibody: (Black line) Rat IgG2a isotype control; (Red filled line) Phycoerythrin Anti-F4/80 antibody.

Disclaimer

This product is for research use only and is not intended for therapeutic or diagnostic applications. Please contact a technical service representative for more information. All products of animal origin manufactured by Rockland Immunochemicals are derived from starting materials of North American origin. Collection was performed in United States Department of Agriculture (USDA) inspected facilities and all materials have been inspected and certified to be free of disease and suitable for exportation. All properties listed are typical characteristics and are not specifications. All suggestions and data are offered in good faith but without guarantee as conditions and methods of use of our products are beyond our control. All claims must be made within 30 days following the date of delivery. The prospective user must determine the suitability of our materials before adopting them on a commercial scale. Suggested uses of our products are not recommendations to use our products in violation of any patent or as a license under any patent of Rockland Immunochemicals, Inc. If you require a commercial license to use this material and do not have one, then return this material, unopened to: Rockland Inc., P.O. BOX 5199, Limerick, Pennsylvania, USA.